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Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXLVI.



ANNUAL REPORT
OF THE COUNCIL
OF THE
YORKSHIRE
PHILOSOPHICAL SOCIETY

FOR

MDCCCXLVI.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 2, 1847.



YORK:

H. SOTHERAN, CONEYSTREET.

1847.

TRUSTEES
OF
THE YORKSHIRE MUSEUM,

APPOINTED BY THE ROYAL GRANT.

EDWARD, LORD ARCHBISHOP OF YORK.

GEORGE, EARL OF CARLISLE, K. G.

CHARLES WILLIAM, EARL FITZWILLIAM.

THOMAS PHILIP, EARL DE GREY.

HON. AND VERY REV. HENRY HOWARD, D.D.

SIR WILLIAM LAWSON, BART., F.S.A.

FRANCIS CHOLMELEY, ESQ., F.S.A.

ROBERT DENISON, ESQ.

REV. WILLIAM VERNON HARCOURT, F.R.S.

RICHARD JOHN THOMPSON, ESQ.

PATRONESSES

OF THE

Yorkshire Philosophical Society.

HER MAJESTY THE QUEEN.

H. R. H. THE DUCHESS OF KENT.

PATRONS.

HIS GRACE THE ARCHBISHOP OF YORK.

EARL OF CARLISLE, K. G.

EARL FITZWILLIAM, F. R. S.

EARL OF TYRCONNEL, F. R. S.

THE VISCOUNT MORPETH.

THE LORD FEVERSHAM.

THE LORD WENLOCK.

OFFICERS OF THE SOCIETY, 1847.

PRESIDENT :

EARL FITZWILLIAM, F.R.S.

VICE-PRESIDENTS :

HIS GRACE THE DUKE OF NORTHUMBERLAND, F.R.S.

THE LORD MAYOR OF YORK, M.P.

SIR WILLIAM LAWSON, BART., F.S.A.

REV. WILLIAM VERNON HARCOURT, F.R.S.

GEORGE GOLDIE, M.D.

REV. JOHN KENRICK.

THOMAS HENRY TRAVIS.

REV. CHARLES WELLBELOVED.

TREASURER :

ROBERT DAVIES, F.S.A.

COUNCIL :

Elected 1845.... THOMAS ALLIS.

FAVIL JAMES COPSIE.

W. L. NEWMAN, F.R.A.S.

Elected 1846.... HENRY NELSON CHAMPNEY.

JOHN FORD.

JOSHUA OLDFIELD.

JOHN PREST.

EDWIN SMITH.

Elected 1847.... GEORGE DODSWORTH.

WILLIAM GRAY, F.G.S.

REV. WILLIAM HEY.

PROFESSOR PHILLIPS, F.R.S.

SECRETARY :

THOMAS MEYNELL, JUN., F.L.S.

KEEPER OF THE MUSEUM :

EDWARD CHARLESWORTH, F.G.S.

HONORARY CURATORS :

ANTIQUITIES	REV. C. WELLBELOVED.
BOTANY	OSWALD ALLEN MOORE.
COMPARATIVE ANATOMY	THOMAS ALLIS.
LABORATORY	T. H. BARKER.
LIBRARY	GEORGE GOLDIE, M.D.
METEOROLOGY	JOHN FORD.
OBSERVATORY	W. L. NEWMAN, F.R.A.S.

SUB-CURATOR OF THE MUSEUM & GARDENS :

HENRY BAINES.

YORKSHIRE PHILOSOPHICAL SOCIETY.

REPORT OF THE COUNCIL

TO THE

ANNUAL MEETING OF THE SOCIETY, ON THE 2ND OF FEBRUARY, 1847.

AT the last Annual Meeting, the Council reported the completion of several important and long-desired improvements, which Dr. Beckwith's munificent bequest had enabled the Society to effect; including the extension and embellishment of the Gardens, the repairs of St. Mary's Abbey, the erection of the Sub-Curator's House, the purchase of the Swimming Bath, and the warming of the Museum. It was also announced that the Corporation of the City of York had consented to place in the possession of the Society the remains of the Hospital of St. Leonard, with so much of the area surrounding them, and adjoining the Roman Wall, as would allow of their being freed from many incumbrances, and examined with convenience and advantage. The Council have great satisfaction in stating that those incumbrances have, to a considerable extent, been removed, and thus the character of these interesting remains more clearly displayed. The clearing out of what have usually been called the "Cloisters" of St. Leonard's, and a partial excavation of the ground immediately adjoining them, have shown, that besides the passage to which the Archway belongs, these supposed Cloisters consisted originally of five, or perhaps six aisles, one of them furnished with a fire-place. The removal of the modern erections above them has opened a large space

which must originally have been a chamber or chambers of some description. But the most interesting discovery has resulted from taking down the house lately occupied by Mr. Hood. Two sides of this house had been formed of what were evidently external portions of an elegant ecclesiastical building; the removal of the house has brought to light a relic of great beauty,—the eastern gable of that building, the interior of which clearly shows that it was a chapel connected with the room or rooms above the cloisters. “Here then,” the Curator of Antiquities concludes, “we have the remains of the Infirmary of St. Leonard’s Hospital, with its chapel open to the wards, and its ambulatory capable of being warmed for the benefit of the infirm and sick. This is the place of which Sir Thomas Widdrington speaks, as cited by Drake,* ‘where the Master of St. Leonard’s Hospital used to keep diseased people before they were in some measure healed of their infirmities, for fear of infection.’ It was probably the general Infirmary of the Hospital, and referred to in the following ancient grant:—‘William the Physician, son of Martyn of York, granted to St. Leonard’s Hospital, for the augmentation of one chaplain to celebrate divine service in the New Infirmary, &c.’

“Interesting remains of another building, apparently much larger and of earlier date, have been discovered, extending from the Infirmary to the foundations of a wall belonging to the Roman Multangular Tower. They consist of three rows of pillars, (those of one row being of larger dimensions, and Norman), forming with the Roman Wall four aisles, at right angles to those of the ambulatory of the Infirmary. It is to be hoped that not many years will pass before an opportunity will be afforded of tracing these remains in another direction, so that the Curator of Antiquities may have more ample means of forming an opinion of the character and purpose of the edifice, to which these remains belonged.”

These important discoveries added greatly to the interest and admiration with which the Antiquarian remains within the Society’s grounds were viewed by the Members of the Archæo-

* Hist. of York, p. 334, 337.

logical Institute, during their recent visit to York. It has, however, been found advisable to postpone the completion of the alterations connected with St. Leonard's Hospital, and the entrance to the grounds, until the plans of the Corporation for the splendid improvements contemplated in the adjoining streets shall be finally and accurately defined.

The improvements on which the Corporation have resolved, and which now await the sanction of an Act of Parliament, will prove in an especial manner advantageous to the Society, by rendering the approach to the Gardens more handsome and commodious, and the Museum more easily accessible to strangers.

The Donations to the Collection of Antiquities during the past year have not been numerous. For the most important of these, a small Roman Altar, dedicated to the local deity Veterinus or Veterineus, and found in a farm-house near the Roman Station *Magna*, on the wall of Hadrian, the Society is indebted to Edwin Smith, Esq.

But if the Antiquarian department of the Museum has not been enriched by many donations, it has received by purchase a large addition of peculiar interest,—the Collection of the remains of Roman York, formed during the course of more than twenty years, with great industry and at considerable expense, by Mr. W. Hargrove. This extensive collection consists chiefly of an interesting portion of a tessellated pavement, of inscribed monumental stones, earthen vessels, urns, and lachrymatories, of various shapes and sizes, of fragments of Samian ware, of vessels of glass, and of Roman coins, all found in York. In addition to these, bronzes and fragments of enamel, partly, perhaps, Roman, and partly Saxon or Mediæval; and more than 2000 Northumbrian coins or Stycas, which being added to the 1000 already in the cabinet of the Museum, it may be safely affirmed that the Society is in possession of more than half the hoard found in St. Leonard's Place in 1842; the fourth of the great hoards of these coins (of which so much is yet to be learned) discovered in this kingdom.

The Yorkshire Philosophical Society already possessed a most interesting collection of the remains of Eburacum; and when these

two collections shall have been combined and properly arranged, the Society will have cause to boast of a Museum of LOCAL Antiquities, superior, the Curator thinks he may venture to assert, to anything that even the metropolis itself contains. Most ardently is it to be wished that all the remains of ancient times which have been found in York,—Roman, Saxon, and Mediæval,—and are now in the hands of private individuals, could be restored to this city, and deposited in the Museum, where they would be in security, and contribute to the public gratification; and that distant collectors would not tempt those who are so frequently discovering the hidden relics of past times in this neighbourhood, to separate them from their proper locality, where they naturally possess the highest interest.

This great increase in the Society's Collection renders it necessary to provide a large additional space for this department. The Council have therefore determined to remove to the upper room of the Hospitium of St. Mary's Abbey the whole of the Antiquities at present dispersed in different parts of the Museum. That building was a few years ago, to a considerable extent, placed in a state of repair, and its lower story has since been appropriated to the reception of the sculptured fragments of the Abbey and other ancient edifices in York. The upper room has more recently received additional repairs; and, with some further outlay, the Council and the Curator of Antiquities consider it will afford the most suitable repository for a great Yorkshire Collection of Roman and Mediæval Art.

The Archæological Institute of Great Britain and Ireland, under the presidency of Earl Fitzwilliam, assembled in York in July last, when the Council, with the approbation of the last Annual Meeting, were happy to afford a hospitable reception to that learned body. The Museum and Gardens were thrown open to the Members of the Institute, and the use of the Theatre and Hospitium given for its sectional and general meetings. The Society was amply repaid by the gratification of welcoming within its walls many individuals distinguished both in archæological and general Science, and by the interesting communications brought forward at the Meeting. The forthcoming

volume of the Institute may be expected to contain much valuable information respecting Yorkshire Antiquities ; and in particular a Map of “ Roman Yorkshire,” in which Mr. Newton hopes, with the assistance of gentlemen resident in various districts of the county, to be able to lay down a fuller and more correct delineation of the Roman Roads and Stations than has yet been given to the public. The exhibition of Antiquities constituted a very interesting and gratifying feature of the Meeting ; and some very curious casts of Yorkshire Antiquities, which formed a portion of it, have since been presented to the Society, amongst the rest the cast of an ancient Rood from Sherburn Church, and of Norman Sculptures from Adel ; the gifts of Mr. Fowler Jones, a member of this Society, and the Rev. G. Lewthwaite, Rector of Adel.

Altogether it may be permitted to hope, that one permanent result of the visit of the Institute to York will be a fresh impulse given to the cultivation of one of the original and leading objects of this Society, the investigation of the Antiquities and Topography of Yorkshire.

The Donations to the Geological Department have, during the last year, been less numerous than usual. They include a very interesting series of Sharks’ Teeth from the Red Crag of Suffolk, contributed by Mr. Whincopp, of Woodbridge ; and a Cast of *Plesiosaurus Hawkinsii*, from the original specimen in the British Museum, presented by Mr. Charlesworth.

Owing to the amount of expenditure in other departments, the Council have refrained from making any large additions by purchase to the Geological Collection ; but they have considered it expedient to devote a sum of £25 towards the publication of Lithographic Illustrations of rare and interesting Yorkshire Fossils, the originals of which are mostly contained in the Museum. The first number of the “ London Geological Journal,” in which some of these plates are contained, is already published, and the second is nearly ready for publication. The Lithographs, executed by pupils in the York School of Design, are highly creditable as works of art, and geologists of eminence have borne testimony to their scientific accuracy. As the pub-

lication of these plates, together with the descriptive memoirs to be contributed by the editor, Mr. Charlesworth, must tend to promote that interest which the pen and pencil of Professor Phillips have excited in the extinct fauna of our district, the Council have thought the design well worthy of encouragement.

The Keeper of the Museum has devoted a considerable portion of his time to increasing and perfecting the collection of British Conchology, which has, during the past year, been more than doubled in extent, and the original collection mostly replaced by better specimens. The whole is distinctly labelled, and advantageously displayed.

The additions which this collection has received have involved no expense to the Society, having been obtained almost entirely by Mr. Charlesworth in exchange for specimens of Tertiary fossils from his private collection, which he liberally appropriated to this purpose. The most valuable shell contained in the collection (*Pleurotoma teres*, Forbes) was found by the Secretary on the coast near Redcar, during the last summer, and presented by him to the Museum. Mr. Charlesworth hopes, through his extensive correspondence with the principal cultivators of British Conchology, ultimately to make this collection one of the most complete extant.

Through the liberality of Mr. Woodward, Professor of Natural History in the Cirencester Royal Agricultural College, the Foreign Conchological Collection has been enriched by a specimen of very remarkable interest, namely, an Argonaut-shell exhibiting a very peculiar formation. This Mr. Charlesworth explains on the supposition that the spire of the shell, having been broken off during the life of the animal, has been replaced by a small shell of the same species, which the Argonaut has fixed in a reversed position, and united to the broken edges of its habitation by the secretion of shelly matter.

In Ornithology, an interesting addition has been made to the General Collection by the purchase of a large series of Birds, sent direct to this city from Malacca; but by far the most important accession which this department of the Museum

has EVER received, has been the munificent donation by Mr. William Rudston Read, of his extensive Collection of British Birds, on the formation of which he has during several years spared neither pains nor cost. The only condition annexed to this liberal gift was, that it should be kept separate from the general ornithological collection of the Society, and distinguished as “The Rudston Collection of British Birds;” but the Council felt it no less an imperative duty, than a gratification to their own feelings, to recommend to the general monthly meeting at which the donation was announced, the election of Mr. Read as a Life Member of the Society. The Council propose, as soon as the necessary arrangements can be effected, to place “the Rudston Collection” in one of the upper rooms of the Museum, at present occupied by a part of the Collection of Antiquities about to be removed to the Hospitium. It will thus be kept conspicuously distinct, and will permit the more effectual and instructive display of the general collection of Birds in the centre room of the Museum.

These alterations in the arrangement of the Ornithological and Antiquarian Departments will necessarily entail a considerable expenditure, beyond what the annual income of the Society can fairly be expected to bear. The Council therefore have recently appealed to the liberality of the Members to assist in carrying these arrangements into effect. Several of the Members have already responded to this appeal, and the Subscription at present amounts to about £110, which the Council hope will still be increased.

The chief addition to the Botanical department has been the purchase of a Herbarium of Pyrenæan Plants, collected by Mr. Spruce, formerly of this city. The Curator of Botany delivered during the summer a course of Botanical demonstrations, to which the Members of the Society and their families were gratuitously admitted.

The Library has continued to receive the publications of learned Societies at home and abroad; in other respects the donations have not been numerous or important. But the Society has had the good fortune to obtain by purchase, at a

very moderate cost, several highly useful and important works on Natural History, part of a collection submitted to public auction in this city during last summer, a list of which will be found in the appendix to this report. The Council continue to subscribe for, amongst others, the valuable publications of the Ray Society ; for the splendid work of Mr. Gould on the Birds of Australia, and Mr. Gray's no less beautiful publication on the Genera of Birds ; and in the antiquarian branch of the Library, for the works of Archdeacon Churton on the Monastic Ruins of Yorkshire, and of Mr. Browne on the History of York Minster (the latter within one part of its completion). The Curator of Meteorology has presented to the Council his observations on the weather at York, the results of which are contained in the following Table :—

METEOROLOGICAL REGISTER—YORK, 1846.

Barometer.

Thermometer.

	Mean Height.	Highest.	Lowest.	Rain.	Average Max.	Average Min.	Mean temp.	Mean temp. of York, for 13 years.	Highest.	Lowest.	Nights at or below 32°	Days of rain more or less.	Prevalent Wind.
Jan.	29·907	30·65	28·75	2·55	46·4	36·8	41·5	35·2	52	26	9	14	Westerly.
Feb.	29·935	30·47	29·34	·28	48·8	37·2	43·	38·	58	26	7	3	Westerly.
Mar.	22·740	30·72	29·05	1·01	50·1	35·1	42·6	41·	55	21	7	11	S. West.
April	29·778	30·36	29·05	4·24	52·8	38·6	45·7	45·	63	31	4	20	N. W. & N. E.
May	29·964	30·36	29·00	1·17	64·3	46·	55·	52·	72	41	—	11	Westerly.
June	30·045	30·44	29·44	1·64	75·6	54·4	64·9	58·	86	43	—	6	S. E.
July	29·884	30·23	29·17	3·56	71·9	54·	63·	60·	85	48	—	11	Westerly.
Aug.	29·996	30·37	29·59	1·75	71·3	54·6	63·	59·6	80	42	—	14	North & South.
Sept.	30·026	30·60	29·37	0·79	67·2	49·3	58·3	54·6	74	41	—	10	Various.
Oct.	29·632	30·30	28·82	4·59	54·1	41·4	47·8	48·	62	29	5	23	Southerly.
Nov.	29·969	30·60	28·99	2·29	47·1	39·4	43·3	41·3	57	26	5	13	S. E.
Dec.	29·834	30·55	28·85	1·79	36·1	25·4	31·7	39·6	47	12	26	8	N. W.
	298·92			25·66			50°	47·7			63	144	

COMPARATIVE PREVALENCE OF WINDS.

	N.	S.	E.	W.	N.E.	N.W.	S.E.	S.W.
Days :	11.	39.	21.	79.	34.	49.	68.	64.
Mean height of the mercury at 9 morning							29.9268.	
Ditto 3 afternoon.							29.9157.	
Mean daily depression at 3 afternoon.							.0111.	
Mean height for the year							29.8929.	
Mean temperature for the year 1846						50° .		
„ for a series of 13 years						47.7.		
Excess above the mean						2.3.		

Notwithstanding the extreme cold of December, (8° below the mean temperature of that month at York,) it will be seen that the extraordinary heat of the summer months more than compensated for the deficiency. This increase of temperature commenced in May, and continued till September, those months averaging 4 degrees above the usual mean. The highest temperature of the year was 86°, on the 19th of June, and the lowest, 12°, on the 14th of December. The mean temperature of December, viz. 31.7, was lower than the temperature of that month at any time during the last 17 years. The nearest approach to it was in the year 1840, viz. 33.3. On the other hand, the temperature of June was 64°·9. During the last 17 years, the nearest approach to that temperature was in July, 1834, viz. 62.9. The rain of the year has been about 1½ inch above a mean quantity; it was distributed over the twelve months in about its usual proportions, except that in October 4.59 inches fell, being 2 inches more than a mean quantity.

The following notices of the depth of rain have been received,
viz. :—

	INCHES.
Doncaster	27.682
Ackworth	25.900
Settle	37.880
Huggate	35.870

The Sub-Curator has continued his diligent care of the Garden and Hot-houses. The donation of a large Conservatory by Mrs. William Taylor, has enabled the Council at a moderate expense to erect a range of Hot-houses suitable both to the growth of Orchidaceous plants, and to the cultivation of specimens of the economical as well as ornamental tribes. Amongst these will be found examples of the sugar cane, coffee, tea, ginger, cotton plant, &c. Of the 303 natural orders enumerated in Dr. Lind-

ley's recently published work on "The Vegetable Kingdom," the Society possesses representatives of no less than 200. The Sub-Curator has been enabled by his extensive correspondence to effect many valuable exchanges with the Curators of the Royal Gardens at Kew, the Royal Botanical Society's Gardens in the Regent's Park, and the Botanical Garden at Hull, as well as with several private individuals.

The Council regret to have again to report the want of success which attended the Horticultural Exhibition, held in the Society's Gardens in June last, arising from no want of zeal or efficient management on the part of the Committee, but from an unfortunate concurrence of circumstances over which they had no controul.

For a statement of the Society's finances, the Council refer the Meeting to the balance-sheet which accompanies this report. They have much pleasure in congratulating the Society upon the increasing interest taken by the public in the Museum and Gardens, as evinced by the sum received at the gate for the admission of strangers, amounting during the year to £174. In addition to this the public have, as customary, been admitted gratuitously on Whit-Monday and Tuesday. Another important item in the receipts is the money received at the Swimming Bath. The unusual heat of the summer may in part account for the large increase in this branch of the Society's income, which, after deducting all expenses incident thereto, leaves a balance in favour of the Society of £112. 10s. 10d.

The Council have been called upon to repay to the Executors of the late William Gray, Esq., the sum of £1000. lent to the Society some years since by that gentleman; and a further sum of £379. has been required for the purchase of Mr. Hargrove's Collection of Antiquities, as awarded by reference to competent arbitrators. In the present state of its finances, the regular income of the Society is fully adequate to defray all the ordinary expenses which it can be called upon to bear,—but it must be recollected that little can be done in the furtherance of those scientific objects for which the Society was originally established, without the revival of that general interest which the origin of

the Society and the foundation of the Museum elicited throughout the county of York. The Council see with pleasure a gradual increase in the total number of Members, but a much larger accession of strength will be required, to enable the Society to extend in any material degree its usefulness to science.

The Council trust that the Annual Meeting will be satisfied with the statements that have been made as to the general condition of the Society, the vigorous growth of its collections, and the great public interest felt in its Museum and Gardens. They cannot however report so favourably of the share taken by the Members at large in the scientific proceedings of the Society. The Monthly Meetings for scientific communications, which formerly were well attended, have for some years past fallen into comparative neglect: the scanty attendance of Members discourages the preparation of communications, and thus one main object of the Institution is permitted to languish. Shall we change the hour and modify the arrangements of these meetings, with the hope of augmenting the attendance of Members? Shall we circulate through our Society some printed Reports of our Proceedings, for the purpose of reviving the interest once felt in our progress, not only in the immediate neighbourhood of York, but even to the extremities of the County? It must be left to those who shall be entrusted with the administration of your affairs in the ensuing year to answer these questions: the retiring Council have, however, left on record the elements of a plan which may perhaps be realized under other auspices, for the occasional publication of such communications presented at the Meetings as relate to the Natural History and Antiquities of Yorkshire, and may deserve to be generally known.

With such objects in view, and with such a plan of expansive usefulness in operation, in addition to the instruction and gratification already provided for the Members and the Public by its well-stored Museum, its beautiful and instructive Garden, and the attention bestowed on the preservation of the venerable relics of Antiquity entrusted to its care, the Society may be justified

in asserting its claim to a continuance and increase of public patronage. During the lapse of four and twenty years since its first commencement, the Society has had to deplore the loss of a very great number of its early supporters and friends. But it is to be hoped that its ranks may continue to be recruited by a large accession of younger and no less zealous fellow-labourers, who, both by their pecuniary subscriptions and scientific communications, will uphold the efficiency and character of an Institution, in which the City and the County of York may justly feel a lively interest and an honest pride.

ANALYSIS OF DISBURSEMENTS.

ORDINARY EXPENSES.

Rents, Rates, &c.:	£.	s.	d.	£.	s.	d.
Rent to the Crown	1	0	1			
Rent to the Corporation	3	4	4			
Rates and Taxes	8	8	4			
Insurance and Water Rent	11	0	0			
				23	12	9
Salaries and Wages:						
Keeper of the Museum	150	0	0			
Sub-Curator	100	0	0			
Servant	20	0	0			
Lodge Keeper	12	8	0			
Labourers	128	9	0			
Clerk and Collector	15	0	0			
				425	17	0
Interest on Debt:						
Interest on £1000	10	0	0			
Interest to Bankers for being overdrawn.....	31	15	0			
				41	15	0
Museum, Gardens, Grounds, &c.:						
Painting and General Repairs	137	9	0			
Purchase and Preparation of Specimens	95	14	0			
Observatory	1	13	6			
				234	16	6
Library:						
Books and Binding				20	7	0
Incidentals:						
Grant towards Publication of Yorkshire Fossils	25	0	0			
Printing, Advertising, and Stationery	39	11	6			
Coals and Gas	30	15	6			
Postages, Carriages, and Sundries	33	11	11			
				128	18	11

EXTRAORDINARY EXPENSES.

New Hot Houses	58	15	2			
Purchase of Mr. Hargrove's Collection of Antiquities	379	10	0			
On Account of Repairs of St. Leonard's Hospital.....	27	8	3			
Loss by Horticultural Exhibition	23	17	9			
Purchase of Tent	9	0	0			
W. Gray, Esq. (Repayment of Loan)	1000	0	0			
				1498	11	2
				£2373	18	4

RESOLUTIONS

PASSED AT THE ANNUAL MEETING OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

1. That the Report of the Council be adopted and printed for the use of the Members.

2. That the alterations in the laws of the Society, as now read, and a copy of which alterations have, after being signed by five subscribing Members, been put up in the entrance hall of the Museum for one month previous to this Meeting, be adopted and printed with the Report.

3. That the Thanks of the Society be given to the Vice-Presidents and Members of the Council retiring from office.

4. That the Thanks of the Society be given to the Treasurer, Secretary, and Curators of the different departments of the Museum, for their valuable services.

5. That the Council be empowered, on certain days to be selected by them during the present year, to permit free admission to the Museum and Gardens to all persons; the mode of admission to be regulated by the Council.

6. That the Council be empowered to admit Strangers during the present year, at the usual rates of payment.

7. That the Council be authorized to admit to the Museum and Gardens, as temporary subscribers, any occasional visitors to York, not residing in the County, at the rate of One Pound for four months for themselves and their families; but that in no case shall such privilege be granted for a longer period than twelve months.

8. That the best Thanks of the Society be given to the Chairman and Committee of Management of the Horticultural Fête held in June last.

ALTERATIONS IN THE LAWS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY.

SECTION III.—*Page 8.*

BALLOT FOR MEMBERS.

III. The ballot for a Candidate shall take place at a General Meeting, and if three-fourths of the Subscribing Members present vote in the affirmative, he shall, after payment of his admission fee of Five Pounds as hereafter mentioned, be admitted into the Society.

SECTION IV.—*Page 9.*

IV. If any Member do not pay his Arrears within three months after notice thereof has been sent to him, his Privileges shall be suspended until the same be paid; and should his Subscription remain unpaid for three consecutive years, the Council shall be empowered, after one month's notice has been given to him, to erase his name from the list of Members.

SUBSCRIBING MEMBERS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
ELECTED SINCE FEBRUARY, 1845.

1845.

Rev. Francis Orpen Morris, *Nafferton, Driffield.*
 Rev. Edward J. Raines, *York.*
 Rev. Robert Daniel, *York.*
 Rev. A. W. Dorset Fellowes, *York.*
 Thomas Simpson, *York.*
 William F. Lockwood, *York.*
 Seth Agar, *York.*
 Francis W. Calvert, *York.*
 James Backhouse, *York.*
 John Wilson, *New-street, York.*
 George Cooke Yarborough, *Camps Mount, Doncaster.*
 Leonard Thompson, *Sheriff Hutton Park.*

1846.

Rev. Josiah Crofts, *York.*
 Charles Gregory Fairfax, *Gilling Castle.*
 Daniel Seaton, *York.*
 William Spencer Campion, *York.*
 Rev. William H. Oldfield, *York.*
 Edward White, *York.*
 James Guy, *York.*
 John Thompson, *York.*
 William Murray Tuke, *York.*
 Jonathan Pulleyne, *York.*
 William Hargrove, *York.*
 William Rudston Read, *Hayton Hall.*

JANUARY AND FEBRUARY, 1847.

Edwin Wade, *York*.
 George Oldfield, *York*.
 Beverley Robinson Morris, M. D., *York*.
 Thomas Ellis, *York*.
 William Danby, *York*.
 William Gray, jun., *York*.
 Capt. William Hotham, R. N., *York*.
 Robert Dempsey, *York*.
 William Procter, *York*.
 Henry Brown, *York*.
 The Duke of Northumberland, F. R. S.

 HONORARY MEMBER

ELECTED AT THE ANNUAL MEETING, 1847.

The Marquis of Northampton, P. R. S., &c.

Number of Subscribing Members, Feb. 3, 1847.	294
Ditto Compounding Members	37
Total Number of Members	331
Elected since last Report	23
Deceased	9
Withdrawn ...	8
	17
Increase	6

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

Archdeacon Wilberforce ...	Fossil Wood from Bridlington Quay, perforated by Saxicava.
S. V. Wood, Esq.....	Tertiary Fossils from the United States.
E. Charlesworth, Esq.	Cast of the specimen of Plesiosaurus Hawkinsii in the British Museum.
Marquis of Northampton...	A Collection of Tertiary Fossils from Palermo.
J. S. Rudd, Esq.	Pleurotomaria Anglica, from the Lias at Redcar.
Rev. J. Holroyd	Fine example of Spongia radiformis (Phillips) from the Chalk at Flambro'.
William Whincopp, Esq....	An interesting series of Sharks' Teeth, from the Red Crag of Suffolk.
Mr. D. Graham.....	Examples of Lavas, &c., from Iceland.

ZOOLOGY.

W. H. R. Read, Esq.	The RUDSTON COLLECTION of British Birds.
W. J. Salmond, Esq.	Skins of various Quadrupeds, from Malacca.
Capt. R. R. Currer	Fourteen Skins of Birds, from Australia.
T. W. Flower, Esq.	A Collection of Land and Fresh Water Shells, from Upper Canada.
M. Lambe, Esq.	Skin of the Black Squirrel (<i>Sciurus niger</i>) from the United States.
Samuel Woodward, Esq....	Remarkable Shell of an Argonaut.

Thomas Meynell, jun., Esq.	A fine example of <i>Pleurotoma teres</i> (Forbes), from Redcar.
T. S. Rudd, Esq.	A specimen of <i>Mytilus subsaxatilis</i> , from Redcar.
Mr. D. Graham	<i>Motacilla alba</i> (male and female), from Iceland.
Mr. Robt. Anderson (<i>South Stockton</i>)	} Wood perforated by a large species of <i>Teredo</i> .
R. Nicholson, Esq.	
Capt. T. W. Oldfield	Sections of Tooth of the Asiatic Elephant.
W. H. R. Read, Esq.	Fine preparation of the Cranial Bones, in a detached state.

ANTIQUITIES.

Archæological Institute	Cast of a Roman Pig of Lead, inscribed IMP. CAES. DOMITIANO. AVG. COS. VII. found at Hogshaw Moor, near Pately Bridge.
G. F. Jones, Esq.....	Cast of an ancient Rood from Sherburn Church.
Rev. G. Lewthwaite	Casts of a Roman Altar, inscribed DEAE BRIGANTIAE, and of a tablet inscribed PRIMINVS MENTLA, from Adel. Casts of two Norman Capitals, from Adel Church.
P. C. Maxwell, Esq.....	Antique Silver Ring and Spur.
Miss R. Oldfield	Fifteen Coins of various descriptions.
Edwin Smith, Esq.	Roman Altar from Northumberland.

MISCELLANEOUS.

Capt. T. W. Oldfield	A Goorkah Koorkoory or knife, with Scabbard and Appendages.
W. H. R. Read, Esq.	Collection of Indian Weapons.

LIBRARY.

BOOKS, &c. PRESENTED.

- O. Allen, Esq. (*the Author*) History of York Dispensary, 8vo. 1845.
- Geological Society Quarterly Journal of the Society, Nos. v—viii.
- Royal Academy of Bruxelles Bulletin de l'Academie, 1844.
- Representatives of the late } Penn's Comparative Estimate of the
J. W. Field, Esq..... } Mineral and Mosaical Geologies, 2 vols. 8vo.
- John Lee, L.L.D., F.R.S. Catalogue of Oriental MSS. in the Library at Hartwell.
A Pamphlet on the Arrangement of an Observatory ; and Observations on the placing of Thermometers, both by Henry Lawson, Esq.
- Edwin Smith, Esq. Thornton's British Flora, 5 vols. 8vo.
- Joseph Clarke, Esq..... Abridged Catalogue of the Saffron-Walden Museum.
- Council of the Zoological }
Society } Proceedings of the Society for 1845.
- E. Charlesworth, Esq..... London Geological Journal, No. i. (*duplicate.*)
- Geological and Polytechnic }
Society of the West } Proceedings of the Society.
Riding }
- Leeds Phil. and Lit. Society Report for 1845.
- Sir R. I. Murchison, President of the British Association }
..... } Address to the British Association assembled at Southampton, September, 1846.
..... }
A Paper on the Detritus of Sweden, &c.
- Professor Phillips..... Tract on the Fossil Infusoria and Foraminifera of Yorkshire.
- W. C. Williamson, Esq., }
(*the Author*)..... } Tract on some Microscopical Objects found in the mud of the Levant.
- Rev. J. L. Petit Original Drawings, illustrative of the architecture of Beverley Minster.

BOOKS PURCHASED.

- Bingley's British Quadrupeds, 8vo. (plates) 1809.
 Brisson Ornithologie, 6 tom. 4to., and Atlas of Plates, (original impressions) Paris, 1760.
 Da Costa's Elements of Conchology, 8vo. 1776.
 Dillwyn's British Confervæ, 4to. (numerous col. plates) Lond., 1809.
 Entomological Magazine, 5 vols. 8vo. (col. plates) London, 1833-38.
 Forbes' (Edw.) Malacologia Monensis, Edin. 1838.
 Gray's (M. E.) Figures of Molluscous Animals, 8vo. London, 1842.
 Guérin et Perchon—Genera des Insectes, 4to. (col. plates), Paris, 1835-38.
 Gualtieri Index Testarum Conchyliorum, royal folio, Florentiæ, 1742.
 Martin's Derbyshire Petrifications, 4to. (col. plates), Wigan, 1793.
 Montagu's Testacea Britannica, *with the Supplement*, (plates), 3 vols. 4to., 1803-8.
 Pennant's British Zoology, 4 vols. 4to., Warrington, 1776.
 Pichet Recherches sur les Phryganides, 4to. Geneve, 1834.
 Pulteney's Catalogue of the Birds, Shells, and Plants of Dorsetshire, fol., London, 1813.
 Rosmässler Iconographie der Land-und Susswässer Mollusken; Parts i. to xi. 4to. (very numerous plates) Dresden and Leipzig, 1835-42.
 Sparrman's Voyage to the Cape, 2 vols. in 1, 4to. London, 1786.
 Schröten Geschichte der Flussconchylien, (col. plates) 4to. Halle, 1779.
 Shaw's Naturalist's Miscellany, 8vo.
 Townson's Tracts on Natural History, 8vo. London, 1799.
 Walker's Testacea Minuta rariora, 4to.
 Watson's Botanist's Guide. London, 1835.
 Willughby's Ornithology, by Ray, fol., London, 1678.
 Lindley's Vegetable Kingdom, 8vo., London, 1846.

SERIAL WORKS SUBSCRIBED FOR.

- Gould's Birds of Australia, fol., col. plates, 25 parts published.
 Gray's Genera of Birds, fol., col. plates, 34 parts published.
 Doubleday's Genera of Diurnal Lepidoptera, fol., col. plates, 4 parts published.

Sowerby's *Thesaurus Conchyliorum*, 8vo., col. plates, 7 parts published.
 Waterhouse's *Natural History of Mammalia*, 8vo., col. plates, 13 parts published.

Browne's *York Minster*, 4to., 31 parts published.

Churton's *Monastic Ruins of Yorkshire*, 4 parts published.

Publications of the Ray Society, viz.

Alder and Hancock on *British Nudibranchiate Mollusca*, 4to., col. plates, 1845.

Steenstrup on the *Alternation of Generations*, 8vo., 1845.

Memorials of John Ray, 8vo., 1846.

Reports on Zoology and Botany, 8vo., 1846.

Meyen's *Outlines of Geography of Plants*, 8vo., 1846.

PERIODICALS.

London and Edinburgh Philosophical Magazine, monthly.

Annals and Magazine of Natural History, monthly.

Phytologist, monthly.

London Geological Journal.

DONATIONS TO THE GARDEN.

Mrs. W. Taylor, <i>West-bourne Terrace, London</i>	} A large Conservatory.
Capt. R. R. Currer	Collection of Seeds from Norfolk Island.
F. B. Hacket, Esq.	Collection of 75 bulbs, and 126 papers of Seeds, from the Cape.
John Wood, Esq., <i>London</i>	Fifty papers of Seeds.
H. Robinson, Esq., ...	Sixty Melo-cacti.
Wm. Vetch, Esq., <i>Exeter</i>	Six New Plants from Java.
George Hobson, Esq.	Seeds from the Burmese Empire.
Thomas Meynell, jun., Esq.	Collection of Seeds from Australia.

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